## **AMENDMENTS**

## Claim amendments:

Claims 1-13 (Canceled)

14. (Currently Amended) A method of forming a silicon on insulator (SOI) device substrate, comprising:

forming a first dielectric layer on a silicon wafer;
forming a layer of silicon carbide over the first dielectric layer; and
bonding forming a second dielectric layer on to the silicon carbide layer.

- 15. (Canceled)
- 16. (Original) The method claimed in claim 15, wherein the second dielectric layer is a silicon oxide layer formed on the surface of a semiconductor layer.
- 17. (Original) The method claimed in claim 16, wherein the semiconductor layer is a silicon layer.
- 18. (Original) The method claimed in claim 16, wherein the semiconductor layer is a silicon germanium layer.
- 19. (Original) The method claimed in claim 18, wherein the silicon germanium layer has a composition Si<sub>1-x</sub>Ge<sub>x</sub>, where x is in the range of 0.1 to 0.3.
- 20. (Original) The method claimed in claim 16, wherein the semiconductor layer comprises a hydrogen implanted region, and

wherein said bonding comprises placing the second dielectric layer and the silicon carbide layer in contact in a high temperature environment, whereupon the semiconductor layer is fractured in the hydrogen implanted region.

21. (Original) A method for forming a silicon on insulator (SOI) device, comprising:

providing an SOI substrate comprising a silicon carbide layer, a dielectric layer formed on the silicon carbide layer, and a layer of a semiconductor material formed on the dielectric layer;

patterning a FinFET body from the semiconductor material, the FinFET body comprising source and drain regions joined by a channel region;

forming a gate insulator around at least the channel region; and forming a gate around the channel region, the gate being separated from the channel region by the gate insulator.

- 22. (Original) The method claimed in claim 21, wherein the semiconductor material is silicon.
- 23. (Original) The method claimed in claim 21, wherein the semiconductor material is silicon germanium having a composition Si<sub>1-x</sub>Ge<sub>x</sub>, where x is in the range of 0.1 to 0.3.
- 24. (Original) The method claimed in claim 23, wherein a layer of strained silicon is grown on the FinFET body prior to forming the gate insulator.
- 25. (Original) The method claimed in claim 21, wherein providing the SOI substrate comprises:

forming an insulating layer on a silicon wafer;

forming a layer of silicon carbide over the insulating layer; and

bonding said dielectric layer to the silicon carbide layer.

- 26. (Original) The method claimed in claim 21, wherein the silicon carbide layer of the SOI substrate is formed on a silicon oxide layer of a silicon wafer.
- 27. (Original) A method for forming a silicon on insulator (SOI) device, comprising:

providing an SOI substrate comprising a silicon carbide layer, a dielectric layer formed on the silicon carbide layer, and a layer of a semiconductor material formed on the dielectric layer;

forming shallow trench isolations that extend through the semiconductor material to the dielectric layer and define an active region of the substrate; and forming a MOSFET in the active region.

- 28. (Original) The method claimed in claim 27, wherein the semiconductor material is silicon.
- 29. (Original) The method claimed in claim 27, wherein the semiconductor material is silicon germanium having a composition Si<sub>1-x</sub>Ge<sub>x</sub>, where x is in the range of 0.1 to 0.3.
- 30. (Original) The method claimed in claim 29, further comprising growing strained silicon on silicon germanium in the active region.
- 31. (Original) The method claimed in claim 27, wherein providing the SOI substrate comprises:

forming an insulating layer on a silicon wafer; forming a layer of silicon carbide over the insulating layer; and bonding said dielectric layer to the silicon carbide layer. 32. (Original) The method claimed in claim 27, wherein the silicon carbide layer of the SOI substrate is formed on a silicon oxide layer of a silicon wafer.